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<b>(54) Title:</b> MANGANESE SUPEROXIDE DISMUTASE REGULATORY ELEMENTS AND USES THEREOF			
<p><b>(57) Abstract</b></p> <p>A novel transcriptional regulatory element which was isolated from the MnSOD gene and which exhibits promoter-enhancer activity is disclosed. The promoter-enhancer activity of the element is further modulated by inflammatory mediators to regulate transcription. Methods of using the promoter-enhancer element to regulate gene expression, and therapeutic uses involving the promoter-enhancer element are also described.</p>			
<p><b>MnSOD Genomic Hind III Fragment</b></p> <p>The diagram illustrates the genomic structure of the MnSOD gene. It shows the gene as a series of exons (Exon 3, Exon 4, Exon 5) and introns (Intron 2, Intron 3, Intron 4, Intron 5). The 2.5 Kb MnSOD Promoter Fragment (Hind-E) is indicated as a segment between Exon 3 and Exon 4. This fragment is shown being inserted into the human growth hormone gene, which is represented by a series of exons (exons 1 through 7) and introns (Intron 1 through Intron 5). DNase HS Sites are marked at positions 2, 3, 4, 5, 6, and 7. Restriction enzymes HindIII and HpaI are indicated at their respective cleavage sites.</p>			